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1 ~~Sub B3~~ 4. (Amended) An apparatus according to claim 2 [or 3], wherein
2 the source of NO₂ is a catalyst which is effective to convert at least a portion of the
3 NO in the exhaust gases to NO₂.

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1 6. (Amended) An apparatus according to claim 1 [any one of the
2 preceding claims], arranged such that at least 50wt% of particulate matter is trapped
3 and subsequently combusted when operating conditions in the same or subsequent
4 operating cycle are improved.

1 7. (Amended) An apparatus according to claim 1 [any one of the
2 preceding claims], in combination with NOx control means [, preferably a NOx
3 absorbent].

1 8. (Amended) An apparatus according to claim 13 [7], wherein
2 said NOx absorbent is effective to trap NOx at relatively low exhaust gas
3 temperatures, and releases NOx when the exhaust gas temperature exceeds about
4 250°C for conversion [and/or] or consumption in the combustion of particulate
5 matter.

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1 ~~Sub B4~~ 9. (Amended) A method of controlling emissions [, especially
2 particulate matter,] from diesel engine exhaust gases by trapping and subsequently
3 combusting said particulate matter, comprising trapping at most 85wt% of particulate
4 matter in said exhaust gas in particulate trapping means and combusting said trapped
5 particulate matter in the presence of NO₂ and causing a portion of said exhaust gases
6 to by-pass said particulate trapping means.

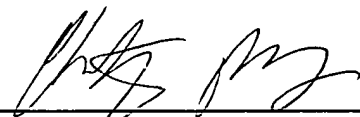
Please add the following new claims:

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1 ~~Sub B5~~ 11. (Newly added) An emission control exhaust gas aftertreatment
2 apparatus for exhaust gases from light duty diesel engines comprising a source of
3 NO₂, a particulate trap, and an exhaust gas by-pass, wherein a portion of the exhaust
4 gases do not pass through the trap, such that at most 85% of engine-out particulates
5 are collected on the trap and combusted in the presence of said NO₂ in said trap.

12. (Newly added) An apparatus according to claim 3, wherein the source of NO₂ is a catalyst which is effective to convert at least a portion of the NO in the exhaust gases to NO₂.

13. (Newly added) An apparatus according to claim 7, wherein said NOx control means is an NOx absorbent.

Respectfully submitted,


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Kathleen Libby